Performance Data Sheet

AVA5546EXN

General Information

Model	AVA5546EXN	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12500	11500					
	Watts	2000	1860					
	Amps	9.95	9.51					
	Lb/h	177	160					
-10	Btu/h	14800	13400	12000				
	Watts	2190	2080	1960				
	Amps	10.6	10.2	9.89				
	Lb/h	203	184	164				
-5	Btu/h	17700	15900	14100	12300			
	Watts	2370	2290	2210	2130			
	Amps	11.2	11.0	10.7	10.5			
	Lb/h	236	214	192	170			
0	Btu/h	21100	18900	16700	14600	12400		
	Watts	2540	2490	2440	2400	2350		
	Amps	11.9	11.7	11.6	11.5	11.4		
	Lb/h	276	251	227	202	178		
5	Btu/h	24900	22400	19900	17300	14800		
	Watts	2680	2670	2670	2660	2640		
	Amps	12.5	12.5	12.5	12.5	12.5		
	Lb/h	321	295	268	241	214		
10	Btu/h	29200	26300	23500	20600	17700	14800	11900
	Watts	2810	2840	2870	2900	2920	2950	2970
	Amps	13.1	13.3	13.4	13.5	13.6	13.7	13.8
	Lb/h	373	344	315	286	257	227	198
15	Btu/h	34000	30800	27600	24300	21100	17900	14600
	Watts	2920	2990	3060	3120	3190	3250	3310
	Amps	13.6	14.0	14.2	14.5	14.8	15.0	15.2
	Lb/h	429	399	368	337	306	274	242
20	Btu/h	39200	35600	32100	28500	25000	21400	17800
	Watts	3010	3120	3230	3330	3440	3530	3630
	Amps	14.1	14.6	15.0	15.5	15.9	16.2	16.6
	Lb/h	490	459	427	394	361	327	293

25	Btu/h	44800	40900	37100	33200	29300	25400	21400
	Watts	3070	3220	3370	3520	3660	3800	3940
	Amps	14.5	15.1	15.8	16.3	16.9	17.4	17.9
	Lb/h	556	524	490	456	421	386	350
30	Btu/h	50800	46700	42500	38300	34100	29800	25500
	Watts	3110	3300	3500	3680	3870	4050	4230
	Amps	14.7	15.6	16.4	17.2	17.9	18.6	19.2
	Lb/h	627	593	558	523	487	450	413
35	Btu/h	57200	52800	48300	43800	39300	34700	30100
	Watts	3110	3350	3590	3820	4050	4270	4490
	Amps	14.8	15.9	16.9	17.9	18.8	19.7	20.5
	Lb/h	701	666	631	594	557	519	481
40	Btu/h	64000	59300	54500	49700	44900	40000	35100
	Watts	3090	3380	3660	3940	4210	4480	4740
	Amps	14.7	16.0	17.3	18.4	19.6	20.6	21.7
	Lb/h	778	743	707	670	632	593	553
45	Btu/h	71200	66200	61100	56000	50900	45700	40500
	Watts	3030	3370	3700	4020	4340	4650	4960
	Amps	14.5	16.0	17.5	18.9	20.2	21.5	22.7
	Lb/h	859	823	787	749	711	671	630
50	Btu/h	78700	73400	68100	62700	57300	51800	46300
	Watts	2940	3320	3700	4070	4440	4800	5150
	Amps	14.0	15.8	17.5	19.1	20.7	22.2	23.7
	Lb/h	943	907	870	832	793	753	711
55	Btu/h	86500	81000	75400	69800	64100	58300	52500
	Watts	2810	3240	3670	4090	4500	4910	5310
	Amps	13.3	15.3	17.3	19.2	21.0	22.8	24.4
	Lb/h	1030	993	956	918	879	838	796

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.841837E+04	2.914721E+03	1.301040E+01	4.742860E+02
C2	1.262004E+03	-3.172990E+01	-1.150778E-01	1.131637E+01
C3	-2.192368E+02	-5.055660E+00	-1.742503E-02	-2.534302E+00
C4	8.170620E+00	-5.328203E-01	-2.439579E-03	8.462651E-02
C5	-6.408539E+00	8.387835E-01	3.581056E-03	-2.619368E-02
C6	3.905873E-02	5.539262E-03	5.543072E-05	9.371294E-04
C7	-2.014468E-02	-2.856895E-03	-2.858860E-05	-4.833279E-04
C8	1.871453E-02	2.654072E-03	2.655897E-05	4.490144E-04
C9	-4.588589E-03	-6.507481E-04	-6.511957E-06	-1.100932E-04
C10	-1.432432E-04	-2.031457E-05	-2.032855E-07	-3.436808E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature